

Appendix A

Climate Change Literature Review Summary

This appendix reviews current literature (as of November 2011), web content, and existing summary tables provided by EPA and California Department of Water Resources (DWR) that relate to addressing climate change impacts on water resources. This search and review of available documents is summarized into the following summary table that identifies climate change documents specifically linked to regional water planning standards. The table is intended to provide guidance for regional water planners and stakeholders to address climate change at key stages within their planning process. The literature summary table is not intended to be a comprehensive survey of the vast amount of scientific literature regarding climate change; rather a targeted survey which identifies the body of literature directly applicable to the regional water planning process.

Organization of the Literature Search Summary Table

The six main categories of the table include:

- General Information,
- General Introduction to Climate Change and Water Resources,
- Climate Change Research,
- Climate Change Implications and Impacts,
- Resource Management Strategies (Adaptation),
- Planning Under Uncertainty, and
- Climate Change Mitigation.

These main categories generally follow the process of addressing climate change issues over the course of a water resource planning process. The summary table provides a “roadmap” indicating the specific aspect of climate change covered by each document reviewed. The literature was screened to identify the presence (or absence) of information useful for preparation of regional water plans. The type of information provided under each category is described below.

General Information

This category contains general citation information for each document. This section of the literature review includes:

- Source Title,
- Author(s),
- Journal/Agency Information, and
- Publication Date.

The literature review summary also includes the following information:

- **Index Number:** This is an arbitrary number assigned for bookkeeping purposes. A unique index is assigned to each source.
- **DWR Reference Information:** The Department of Water Resources has produced a Climate Change Clearinghouse (http://www.water.ca.gov/irwm/docs/drftIRWMPlanningClrhs3_041210.pdf) containing reference information that points to many useful documents in climate change and Water Resources Planning. Items in the Summary Table that are also contained in the clearinghouse are indicated in the “DWR Reference Information” column with a “CH”; items that are also contained in the large DWR index are indicated with the index number from the DWR list.
- **Document Type:** Most documents in this table are in text form; however, several PowerPoint presentations and a video have also been included.
- **Geographic Scope:** the tabulated literature references are categorized by location in the “Geographic Scope” column, beginning with California (denoted “CA”), followed by the Pacific Northwest (“PNW”) and documents that either focus on a region of the United States outside of the PNW or contain nationwide information. Finally, the notation “NA”, referring to Not Applicable, is assigned to documents addressing global-scale phenomena, local-scale phenomena external to the United States, and topics that are not region-specific (such as Adaptive Management). In addition to California, the Pacific Northwest was a selected region due to the similarities in topography and coastal environments. Furthermore, a large amount of climate change research related to water resources has been conducted in this region. Associated with the grouping by location, the table may be sorted chronologically, with the most recent documents for each location shown at the top.
- **General Introduction to Climate Change and Water Resources:** This category represents literature which provides general overviews or summaries of climate change. These may be useful to serve as a “primer” on climate change or to provide general overview information for presentation in a non-technical setting. A “Y” indicates that the document addresses this category.

Climate Change Research

This category identifies literature which addresses the scientific understanding of climate change as well as its trends and processes. This is an area in which there is a vast amount of prior and ongoing research, so the literature summary table is not intended to be comprehensive. Five subcategories which are intended to indicate the relevance of the research to regional water plans have been identified. These include:

- Global Climate Change Trends,
- General Overview of Climate Change Processes,
- Regional Climate Change Trends (targeting West Coast of the U.S.), Global Climate Model (GCM) modeling, Downscaling, and
- Hydrology Trends and Models.

A “Y” indicates that the document addresses each subcategory and provides useful information for a regional planner.

Climate Change Implications and Impacts

The category represents literature which is directly relevant to assessment of climate change vulnerability and impacts to various sectors applicable to a regional water plan. Ten subcategories were identified to cover the suite of water resource management sectors including:

- Flood Management,
- Groundwater,
- Habitat/Ecosystem,
- Hydropower,
- Sea Level Rise,
- Stormwater Management,
- Surface Water Supply,
- Water Quality,
- Urban Water Demand, and
- Agricultural Water Demand.

These categories reflect a combination of the Integrated Regional Water Management (IRWM) plan minimum requirements, the Statewide Priorities for the IRWM Grant Program, the DWR Proposition 84 and Proposition 1E Guidelines Project Definition, and the typical categories of climate change study. A “G” or “S” is used to designate whether each document provides General

information or Specific information. “General” indicates literature which is typically more descriptive and qualitative while “Specific” provides a higher level of detail and technical basis.

Resource Management Strategies (Adaptation)

This category represents literature relevant to the IRWM plan minimum requirements, Statewide Priorities for the IRWM Grant Program, and the DWR Proposition 84 and Proposition 1E Guideline Project Definition. Twelve subcategories are identified which generally overlap with the Implications and Impact category above but also include Conservation, Reuse, and Recycling. A “G” or “S” is used to designate whether each document provides General information or Specific information. “General” indicates literature which is typically more descriptive and qualitative while “Specific” provides a higher level of detail and technical basis.

Planning Under Uncertainty

This category represents a departure from prior regional water planning processes and represents one of the unique features of the Handbook. The DWR IRWM Plan Guidelines require that technical analysis consider uncertainty and how the uncertainty is applied to the planning horizon. Three subcategories are identified: Decision Support/Alternative Evaluation, Analysis of Uncertainty, and Adaptive Management. A “G” or “S” is used to designate whether each document provides General information or Specific information. “General” indicates literature which is typically more descriptive and qualitative while “Specific” provides a higher level of detail and technical basis.

Climate Change Mitigation

This category represents literature which addresses greenhouse gas emissions inventories and emission reduction strategies. This is an area where there is a vast amount of prior and ongoing research and the literature summary table is not intended to be comprehensive. A “Y” indicates that the document addresses mitigation.

The “G” and “S” classifications allow a user to filter the abundant reference information available in these subcategories between general overviews of the subject material—denoted as “G” resources, or specific case studies, examples, or guidelines on the approach, implementation and monitoring of climate change elements within the planning process—denoted as “S” resources. For example, DWR’s “Managing an Uncertain Future” is assigned a “G” in the table for all Implications and Impacts and Adaptation categories. This is because the document provides an introductory overview of general state-wide trends and management strategies. However, AWWA’s “Climate Change and Water: International Perspectives on Mitigation and Adaptation” is assigned several “S” categorizations because it contains many case studies where specific management strategies were evaluated.

The other tabs included in the Excel file for this table include general notes, a list of acronyms, and a companion table containing web links where files are publicly available. An effort was

made to concentrate on publicly available literature, but in some instances journal publications and other private documents containing valuable information were included.

How to Use the Literature Search Summary Table

This literature review table is intended to be used in conjunction with the Handbook to allow regional water planners and stakeholders to identify the climate change references most useful to them as they incorporate climate change into the regional water planning process. The literature summary table is provided in electronic format to allow a user search and sort capabilities. The most effective method is to use the **Filter** option and the **Sort** option, both found in the **Data** menu of Microsoft Excel. These options allow a user to produce a short list of documents that have both general and specific information related to the planning category, or group of select planning categories, and will allow limiting the list further to those documents showing only specific information. These data filtering options were applied after the initial round of literature review to determine where information gaps existed and to focus on filling these gaps during subsequent rounds.

General Findings of the Literature Search

During development of the literature review, it became apparent that a significant amount of climate change literature related to water resources has been produced over the last five years. To address this, an additional table is included to show references that have yet to be reviewed and determined useful for the regional water planners. This table also includes some website links for additional information and documentation related to climate change. Other key findings from the literature review and tabulation were as follows:

- There is a significant amount of general climate change information, but much less of the specific/procedural guidelines necessary for a regional water planner to follow through a regional water planning process.
- There is an information gap on specific strategies for water agencies or utilities to adapt to climate change impacts.
- Limited information exists in the integration of strategies and how they might impact other sectors and/or other strategies.
- A lack of information related to climate change implications on potential vulnerabilities and impacts on Groundwater and Water Quality.
- Much of the available literature presents general information, but there is relatively little which presents specific tools and guidelines on how to apply impacts to sectors for regional water planners and the regional water planning project prioritization and evaluation process.
- There is an abundant amount of documentation on mitigation, but the documents primarily describe this category in general terms as it relates to preventive measures (emissions

reduction). Less information is available on how a participant can use and integrate mitigation to offset an impact associated with a specific water resource strategy.

- There is very limited information and guidance on the use of decision-support tools as used by regional water planners in the context of evaluating strategies to address climate change impacts.
- There are many examples of planning and decision support in preparing for climate change, but there is very little material describing ways in which climate change planning can be incorporated into a larger planning process such as a regional water plan, which has a separate structure for project prioritization and evaluation. The limited number of regional water plans that take climate change into account include climate change in the project weighting process or include climate change as a specific objective. These regional water plans are included in the Literature Summary.

Literature Review Summary Relevant to Climate Change - Integrated Regional Water Management Planning

General Information								Climate Change Research					Climate Change Implications and Impacts										Resource Management Strategies (Adaptation)												Planning for Uncertainty				
Index	Source Title	Author(s)	Journal Title/Agency(ies) Prepared for Institution(s)/ Agency(ies) Prepared by)	Date	Document Type	Geographic Scope	General Introduction To Climate Change and Water Resources	Global Climate Change Trends	General Overview of CC Processes	Regional CC Trends	GCM Modeling and Downscaling	Hydrology Trends and Models	Flood Management	Groundwater	Habitats, Ecosystems and Biodiversity	Hydropower Generation	Sea Level Rise	Stormwater Management	Surface Water Supply	Water Quality	Urban Water Demand	Agricultural Water Demand	Conservation	Flood Management	Groundwater	Habitats, Ecosystems and Biodiversity	Hydropower Generation	Sea Level Rise	Reuse and Recycling	Stormwater Management	Surface Water Supply	Water Quality	Agricultural Water Demand	Urban Water Demand	Decision Support Alternatives Evaluation	Analysis of Uncertainty	Adaptive Management	CC Mitigation	
1	Sierra Climate Change Toolkit	-	Sierra Nevada Alliance	2007	text (pdf)	CA		Y	Y	Y		Y											S	S		S	G				S						S	Y	
2	California Water Plan Update 2005 - Climate Change and California Water Resources: A Survey and Summary of the Literature	Michael Kiparsky Peter Gleick	CEC (Pacific Institute)	Jul-03	text (pdf)	CA				Y	Y	Y	G	G	G	G	G		G	G		G	G					G			G	G				G			
3	Progress on Incorporating Climate Change into Management of California's Water Resources	Anderson et al.	Climatic Change	2008	text (pdf)	CA				Y	Y	Y	S						S	S										S						S			
4	Using Future Climate Projections to Support Water Resources Decision Making in California	Chung et al.	CA CCC	Jun-09	text (pdf)	CA				Y	Y	Y	G				S		S			G																	
5	DWR Presentation to the Regional Advisory Committee for the San Diego Integrated Regional Water Management Plan	John T. Andrew	DWR	Oct-09	ppt (pdf)	CA	Y												G	G																	Y		
6	Framework for the Implementation of Water Management Planning	California Water Institute - Fresno State	California Partnership for the San Joaquin Valley	Mar-09	text (pdf)	CA																								S									
7	The Future is Now: An Update on Climate Change Science Impacts and the Response Options for California	Moser et al.	CEC PIER	Sep-08	text (pdf)	CA	Y			Y					G																								
8	The State of Climate Science for Water Resources Operations, Planning and Management	Michael Anderson	DWR	Jan-09	text (pdf)	CA		Y			Y																												
9	Water Management Adaptation with Climate Change	Medellin-Azuara et al.	CA CCC	Aug-09	text (pdf)	CA					Y	Y				S			S		S	S					S				S				S				
10	Adapting California's Water Management to Climate Change	Elen Hanak Jay Lund	PPIC	Nov-08	text (pdf)	CA							G				G		G	G				G	G		G				S	G	G	G		G	G	Y	
11	Managing Water in the West: Literature Synthesis on Climate Change Implications for Reclamation's Water Resources	Spears et al.	BOR	Sep-09	text (pdf)	CA				Y	Y	Y	G	G	G	G	G		G	G	G																		
12	The Impact of Climate Change on California's Ecosystem Services	Shaw et al.	CA CCC	Mar-09	text (pdf)	CA					Y	Y			S																								
13	Adopted Text of the CEQA Guidelines Amendments	-	CEQA	Dec-09	text (pdf)	CA																																Y	
14	Climate Change Scoping Plan: A Framework for Change	-	California Air Resources Board	Dec-08	text (pdf)	CA																																Y	
15	Preparing California for a Changing Climate	Louise Bedsworth Ellen Hanak	Public Policy Institute of CA	NA	text (pdf)	CA				Y																													
16	Planning for Reliable Water Supply in the Face of Climate Change and Uncertainty	Dan Rodrigo Greg Heiertz	AWRA Specialty Conference on Adaptive Management (CDM)	Jun-09	text (pdf)	CA						Y							S		S														S	S			
17	Our Changing Climate: Assessing the Risk to California	Guido Franco Daniel C. Cayan Amy Linde Luers	CA CCC	Jul-06	text (pdf)	CA						Y			G	G	G		G																				
18	Climate Change and California Water Management: First Western Forum on Energy and Water Sustainability	John T. Andrew	DWR	Mar-07	ppt (pdf)	CA	Y			Y							G		S																				
19	Managing an Uncertain Future: Climate Change Adaptation Strategies for California's Water	-	DWR	Oct-08	text (pdf)	CA				Y			G	G	G	G	G		G	G			G	G	G	G		G	G		G								
20	Progress on Incorporating Climate Change into Management of California's Water Resources: July 2006 Technical Memorandum Report	-	DWR	Jul-06	text (pdf)	CA		Y	Y	Y	Y	Y	S	G			S		S		S	S														G	G		Y
21	2009 California Climate Adaptation Strategy	-	California Natural Resources Agency (CNRA)	2009	text (pdf)	CA		Y	Y	Y	Y		S	G	S	G	S	G	S	G	S	S	G	G	G	G	G	G	G	G	G	G		S	G		S	Y	
22	A Report on Sea Level Rise Preparedness	Herberger et al.	California State Lands Commission CA CCC	May-09	text (pdf)	CA									S		S									S		S							S	S			

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23	Incorporating Climate Change into Water Supply Planning Models	Timothy Cox Enrique Loezcalva William Davis	AWRA Specialty Conference on Adaptive Management (CDM)	Jun-09	text (pdf)	CA						Y							S												S						S		
24	CEQA and Climate Change	-	CAPCOA	Jan-08	text (pdf)	CA																																Y	
25	CEQA and Climate Change: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review	-	Governor's Office of Planning and Research	Jun-08	text (pdf)	CA																																Y	
26	Vulnerability in the Water Sector: Drought and Climate Change	David Behar	San Francsico Public Utility Commission WUCA	Apr-10	ppt (pdf)	CA	Y												G											G									
27	California Climate Risk and Response	Fredrich Kahrl David Roland-Holst	UC Berkeley Department of Agricultural and Resource Economics	Nov-08	text (pdf)	CA					Y	Y							S						G		G				G								
28	DRAFT Biennial Climate Action Team Report	-	CAT	Mar-09	text (pdf)	CA				Y	Y	Y	G		G	S	S		S							G		G			G							Y	
29	Climate Change in Colorado: A Synthesis to Support Water Resources Management and Adaptation	Andrea J. Ray Joseph J. Barsugli Kristen B. Averyt	Colorado Conservation Board	2008	text (pdf)	US		Y		Y	Y	Y																											
30	The Copenhagen Diagnosis: Updating the World on the Latest Climate Science	-	UNSW	2009	text (pdf)	NA		Y	Y																														
31	Best Practice Approaches for Characterizing, Communicating, and Incorporating Scientific Uncertainty in Climate Decision Making: Synthesis and Assessment Product 5.2	-	US Global Change Research Program, Climate Change Science Program	Jan-09	text (pdf)	NA					Y	Y																							S	S	S		
32	Climate Change 2007 Synthesis Report: Summary for Policymakers	-	IPCC	2007	text (pdf)	NA		Y	Y																														
33	Climate Change and Water: IPCC Technical Paper VI	-	IPCC	Jun-08	text (pdf)	NA		Y			Y	Y	S		S	S	S	S	S	S	S	S	G	G		G	G	G		G	G		G	G				Y	
34	Climate Change and Water: International Perspectives on Mitigation and Adaptation	-	AWWA IWA Publishing	2010	text (pdf)	NA		Y				Y	S	S	G	G	S	S	G	S	S	S	S	S	S		G	S		S	S		S	S	S	S	S	Y	
35	California's Water-Energy Relationship	Gary Klein	CEC	Nov-05	text (pdf)	NA										S						G	G			G												Y	
36	Refining Estimates of Water-Related Energy Use in California	-	CEC PIER (Navigant Consulting)	Dec-06	text (pdf)	NA																	G															Y	
37	Methodology for Analysis of the Energy Intensity of California's Water Systems, and an Assessment of Multiple Potential Benefits through Integrated Water-Energy Efficiency Measures	-	University of California Santa Barbara	Jan-00	text (pdf)	NA																	S						G									Y	
38	Flood Protection in the Netherlands: Framing Long-Term Challenges and Options for a Climate-Resilient Delta	Ligtvoet et al.	Netherlands Environmental Assessment Agency	Dec-09	text (pdf)	NA							G				S							S				S											
39	Before the Deluge: Coping with Floods in a Changing Climate	Patrick McCully	International Rivers Network	May-07	text (pdf)	NA							S											S															
40	Setting the Record Straight: Responses to Common Challenges to Climate Science	Doppelt et al.	University of Oregon Climate Leadership Initiative University of Washington Climate Impacts Group	2009	text (pdf)	NA		Y	Y																														
41	Climate Change 101: Understanding and Responding to Global Climate Change	-	PEW Center on Climate Change	Jan-09	text (pdf)	NA	Y	Y	Y																												G		

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42	Identifying Adaptation Options	UK Climate Impacts Programme	UK Climate Impacts Programme	2006	text (pdf)	NA																												S	S	S		
43	Climate Adaptation: Risk, Uncertainty, and Decision Making	UK Climate Impacts Programme	UK Climate Impacts Programme	2003	text (pdf)	NA																												S	S	S		
44	Cities Preparing for Climate Change	Eva Ligeti Jennifer Penney Ireen Wieditz	The Clean Air Partnership	2007	text (pdf)	NA		Y		Y			G		G		G	G	G		G	G	G	G		G		G	G	G	G		G	G	S	Y		
45	Enhancing Reliability Through Adaptive Management Strategies: A Water Utility Perspective	Alison Adams	AWRA Specialty Conference on Adaptive Management	Jun-09	text (pdf)	NA													S						S						S				S			
46	A Framework for Incorporating Streamflow Forecasts into Reservoir Management	Lucien Wang Gavin Gong Upmanu Lall	AWRA Specialty Conference on Adaptive Management	Jun-09	text (pdf)	NA													S												S			S		S		
47	Climate Change and Water Resources Management: A Federal Perspective	Brekke et al.	USGS	2009	text (pdf)	US		Y	Y			Y	S		G		G		G	G		G									G		G	G		G	G	
48	National Water Program Strategy Response to Climate Change	-	EPA	Sep-08	text (pdf)	US		Y	Y								G		G				G	G		G				G							Y	
49	Options for Improving Climate Modeling to Assist Water Utility Planning for Climate Change	Barsugli et al.	Water Utility Climate Alliance (WUCA) (Stratus Consulting) (University of Colorado at Boulder) (Iowa State University Climate Science Initiative)	Dec-09	text (pdf)	US					Y	Y																										
50	Global Climate Change Impacts in the United States	Karl et al.	US Global Change Research Program	June-09		US		Y	Y	Y		Y	G		S		G		G	G																		
51	Ecological Impacts of Climate Change	-	The National Academies	2009	text (pdf)	US	Y	Y	Y						S																							
52	Implications of Climate Change for Urban Water Utilities	John E. Cromwell Joel B. Smith Robert S. Raucher	Association of Metropolitan Water Agencies (AMWA) (Stratus Consulting)	2007	text (pdf)	US	Y	Y	Y		Y	Y	G		G		G	G	G	G	G	G												G	G		Y	
53	Climate Change and Water Resources: A Primer for Municipal Providers	Kathleen Miller David Yates	AWWARF UCAR	2006	text (pdf)	US		Y	Y		Y	Y	G	S			S	G	S	S	G	G	S	S						S	S	S		S	G	G	S	
54	Implications of Climate Change for Adaptation by Wastewater and Stormwater Agencies	Cromwell et al.	WERF (Stratus Consulting) (MWH Global)	Dec-09	text (pdf)	US		Y	Y		Y	Y	G				G		G																S	G	S	
55	Decision Support Planning Methods: Incorporating Climate Change Uncertainties into Water Planning	Means et al.	Water Utility Climate Alliance (WUCA) (Malcolm Pirnie)	Jan-10	text (pdf)	US																													S	S	S	
56	Climate Literacy	-	US Global Change Research Program, Climate Change Science Program	Mar-09	text (pdf)	US	Y		Y																													
57	Thresholds of Climate Change in Ecosystems: Final Report, Synthesis and Assessment Product 4.2	-	US Global Change Research Program, Climate Change Science Program	Jan-09	text (pdf)	US									S											G										S		
58	Climate Change Effects on Stream and River Biological Indicators: A Preliminary Analysis	-	EPA	Mar-08	text (pdf)	US		Y		Y		Y			S																							
59	A Framework for Categorizing the Relative Vulnerability of Threatened and Endangered Species to Climate Change (DRAFT)	Hector Galbraith Jeff Price	US EPA Global Change Research Program National Center for Environmental Assessment	Feb-09	text (pdf)	US									S																							
60	Synthesis of Adaptation Options for Coastal Areas	-	US EPA Climate Ready Estuaries	Jan-09	text (pdf)	US							G		G		G							G		G		G										
61	Preliminary Review of Adaptation Options for Climate Sensitive Ecosystems and Resources	Julius et al.	US Climate Change Science Program	2008	text (pdf)	US		Y	Y	Y			G		S		G	G	G	G					S										S	S	S	Y

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62	The Effects of Climate Change on Agriculture, Land Resources, Water Resources, and Biodiversity in the United States: Final Report, Synthesis and Assessment Product 4.3	Peter Backlund Anthony Janetos David Schimel	US Climate Change Science Program	May-08	text (pdf)	US		Y	Y			Y		G	S		G		S	G																			
63	Adapting to climate change in United States National Forests	Blate et al.	Unasylya	2009	text (pdf)	US																				S													
64	Final Report from the Technical Committee on Climate Change	R. N. Palmer	Department of Civil and Environmental Engineering, University of Washington The Climate Impacts Group	2006	ppt (pdf)	PNW					Y	Y		G					S																				
65	2009 Regional Supply Outlook	Central Puget Sound Water Supply Forum	Central Puget Sound Water Supply Forum (CDM)	2009	text (pdf)	PNW			Y	Y	Y								S		S		S		S				S		S			S	S	S	S		
66	Everett Comprehensive Water Plan 2006; Appendix 6-2 - Climate Change Technical Memorandum Evaluation of Climate Change on Everett's Yield	Amie Hansen	City of Everett Public Works Department (HDR)	2006	text (pdf)	PNW					Y	Y				S			S								S				S					S	S	S	
67	Preparing for Climate Change: A Guide for Local, Regional and State Governments	Climate Impacts Group (UW), King County, Wa	Center for Science in the Earth System (Climate Impacts Group), Joint Institute for the Study of the Atmosphere and Ocean, University of Washington King County ICLEI - Local Governments for Sustainability	2007	text (pdf)	PNW		Y	Y	Y			G	G	G	G	S	S	S	G	G	G	G	G	G	G	G	G	G	G		G	G	S	S	S	Y		
68	SPU 2007 Water System Plan - Part I, Chapter 2: Water Resources	-	Seattle Public Utilities	2007	text (pdf)	PNW				Y	Y								S		S		S	G	S	G			S		S			S	G	S	S		
69	Climate Impacts on Washington's Hydropower, Water Supply, Forests, Fish and Agriculture	Casola et al.	Center for Science in the Earth System (Climate Impacts Group), Joint Institute for the Study of the Atmosphere and Ocean, University of Washington Climate Impacts Group	2005	text (pdf)	PNW		Y	Y	Y			S		S	S		S	S		S	S																	
70	Climate Change Building Blocks	Palmer et al.	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2006	text (pdf)	PNW		Y	Y	Y					G		G		G																				
71	Technical Memorandum #1: Literature Review of Research Incorporating Climate Change into Water Resources Planning	D. Alexander R.N. Palmer A. Polebitski	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2007	text (pdf)	PNW					Y	Y																											
72	Technical Memorandum #2: Methodology for Downscaling Meteorological Data for Evaluating Climate Change	A. Polebitski M.W. Wiley R.N. Palmer	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2007	text (pdf)	PNW					Y																												
73	Technical Memorandum #3: Online Database Functionality and Design for Climate Impacted Data	C. O'Neill R.N. Palmer	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2007	text (pdf)	PNW					Y	Y																											

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74	Technical Memorandum #4: Approach for Developing Climate Impacted Meteorological Data and its Quality Assurance/Quality Control	Polebitski A., L. Traynham R.N. Palmer	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2007	text (pdf)	PNW				Y	Y	Y																										
75	Technical Memorandum #5: Approach for Developing Climate Impacted Streamflow Data and its Quality Assurance/Quality Control	Polebitski A., L. Traynham R.N. Palmer	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2007	text (pdf)	PNW				Y		Y																										
76	Technical Memorandum #6: Framework for Incorporating Climate Change into Water Resources Planning	R. N. Palmer	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2007	text (pdf)	PNW		Y	Y		Y	Y	G	G	G			G	G		G																	
77	Technical Memorandum #8: Impacts of Climate Change on Groundwater Resources- A Literature Review	D. Alexander R.N. Palmer	Climate Change Technical Subcommittee of the Regional Water Supply Planning Process, Seattle, WA.	2007	text (pdf)	PNW								S																								
78	Climate Change Impacts on Columbia River Basin Fish and Wildlife	Independent Science Advisory Board	Independent Science Advisory Board	2007	text (pdf)	PNW		Y	Y	Y			G		S				G							G										G	Y	
79	HB 1303 Interim Report: A Comprehensive Assessment of the Impacts of Climate Change on the State of Washington	Climate Impacts Group	Climate Impacts Group	2007	text (pdf)	PNW		Y		Y			G		G		G	G				G															G	Y
80	Adapting to climate change on Olympic National Forest	D. L. Peterson J.S. Littell O'Halloran	Mountain Views	2008	text (pdf)	PNW																				G											G	Y
81	Sea Level Rise in the Coastal Waters of Washington State	Mote et al.	University of Washington Climate impacts Group Washington Department of Ecology	2008	text (pdf)	PNW				Y																												
82	The Washington Climate Change Impacts Assessment	Climate Impacts Group	Climate Impacts Group	2009	text (pdf)	PNW		Y		Y	Y	Y	S		S	S	S	S	S		S	S	G	G	G	G	G	G		G	G		G	G			G	
83	California Water Plan Update 2009 Volume I: Strategic Plan	-	DWR	2009	text (pdf)	CA				Y			S	G	G	G	G		S	G	S	S	S	S	S	S			S	S	S	S	G	G		S	S	Y
84	Strategies for Managing the Effects of Climate Change on Wildlife and Ecosystems	-	The H. John Heinz III Center For Science, Economics and the Environment	no date!!	text (pdf)	NA																				S									S		S	
85	Understanding and Responding to Climate Change: Highlights of National Academies Reports 2008 Edition	-	National Academy of Science National Academy of Engineering Institute of Medicine National Research Council	2008	text (pdf)	US	Y	Y	Y																													
86	The Impacts of Sea-Level Rise on the California Coast	Herberger et al.	CA CCC	May-09	text (pdf)	CA					Y		G	G	S		S							G		G		S								S		
87	Climate Change in California: Scenarios for Adaptation	Amy Luers Michael D. Mastrandrea	PPIC	Nov-08	text (pdf)	CA				Y	Y					G																				G		
88	California Water Plan Update 2009 Volume II: Resource Management Strategies	-	DWR	2009	text (pdf)	CA																	S	S	S	S		S	S	S	S	S	S	S				
89	A Climate of Change	-	DWR	NA	video	CA	Y		Y	Y	Y	Y	G	G		G	S		S						S		G	S										
90	The Potential Consequences of Climate Variability and Change for California	Wilkinson et al.	California Regional Assessment Group	2002	text (pdf)	CA		Y	Y		Y	Y	G	G	S	G	S		S	G						G					G				G		G	Y
91	Report of the World Climate Conference-3: Better Climate Information for a Better Future	-	World Meteorological Organization (WMO) and United Nations Educational, Scientific and Cultural Organization (UNESCO)	Sep-09	text (pdf)	NA																																

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92	Climate Change and Water Management	-	California Environmental Dialogue	Sep-09	text (pdf)	CA																	G		G				G	G							Y	
93	Bird Species and Climate Change	Janice Wormworth Karl Mallon	WWF-Australia	2006	text (pdf)	NA																																
94	Observed Changes in the Sierra Nevada Snowpack: Potential Causes and Concerns	Sarah Kapnick Alex Hall	CA CCC	Aug-09	text (pdf)	CA						Y																										
95	An Enhanced California Climate Monitoring System	Kelly T. Redmond David B. Simeral Greg D. McCurdy	CEC PIER	Aug-09	text (pdf)	CA				Y																												
96	Preparing for the Impacts of Climate Change in California: Opportunities and Constraints for Adaptation	Amy Lynd Luers Susanne C. Moser	CA CCC	Mar-06	text (pdf)	CA																												S		G		
97	Climate Scenarios for California	Cayan et al.	CA CCC	Mar-06	text (pdf)	CA				Y	Y	Y																										
98	Scenarios of Climate Change in California	Cayan et al.	CA CCC	Feb-06	text (pdf)	CA					Y	Y				S	S		S																			
99	In Hot Water: Water Management Strategies to Weather the Effects of Global Warming	Nelson et al.	NRDC	Jul-07	text (pdf)	US		Y	Y	Y		Y	G		G	G	G		G	G	S	G	S	G	G	G				G	S	G	G	G			G	Y
100	Climate Change Scenarios and Sea Level Rise Estimates for the CA 2008 Climate Change Scenarios Assessment	Cayan et al.	CA CCC	Mar-09	text (pdf)	CA				Y	Y	Y				S																						
101	Planning for Climate Change in the West	Rebecca Carter Susan Culp	Lincoln Institute of Land Policy	2010	text (pdf)	US				Y																												
102	California Water Myths	Hanak et al.	PPIC	Dec-09	text (pdf)	CA	Y																															
103	Why Climate Change Makes Riparian Restoration More Important than Ever: Recommendations for Practice and Research	Seavy et al.	Ecological Restoration	Sep-09	text (pdf)	NA																				S												
104	Bay Delta Conservation Plan Chapter 3: Working Draft Conservation Strategy	-	BDCP	Aug-09	text (pdf)	CA																	S			S		S			S	S				S		
105	Bay Delta Conservation Plan: Independent Science Advisor's Report on Adaptive Management	Dahm et al	BDCP Steering Committee	Feb-09	text (pdf)	NA																														S		
106	Surface Temperature Reconstructions for the Last 2,000 Years	-	National Academy of Sciences	2006	text (pdf)	NA																																
107	Water World: Why the Global Climate Challenge is a Global Water Challenge	Stoddart et al.	Global Public Policy Network on Water Management	Dec-09	text (pdf)	NA	Y								G	G											G				G							
108	Incorporating Climate Change in Water Planning	Freas et al.	Journal of the American Water Works Association	Jun-08	text (pdf)	US																													S	S		
109	Connecting Biodiversity and Climate Change Mitigation and Adaptation: Report of the Second Ad Hoc Technical Expert Group on Biodiversity and Climate Change	Secretariat of the Convention on Biological Diversity	Convention on Biological Diversity UNEP	2009	text (pdf)	NA									S											S										Y		
110	Potential Inundation due to Rising Sea Levels in the San Francisco Bay Region	Noah Knowles	CA CCC USGS	Mar-09	text (pdf)	CA											S																					
111	Taking the Heat: Bay Area Ecosystems in the Age of Climate Change	Glen martin	Bay Nature	Apr-10	text (pdf)	CA									S		S																			Y		
112	Institutional Adaptation of Water Resource Infrastructures to Climate Change in Eastern Ontario	P. Crabbe M. Robin	Climatic Change (University of Ottawa)	2006	text (pdf)	NA								S						S										G				S				
113	Inverse Flood Risk Modeling Under Changing Climatic Conditions	Juraj M. Cunderlik Slobodan P. Simonovic	Hydrological Processes (University of Western Ontario)	2007	text (pdf)	NA					Y	Y	S																									
114	Forecasting Water Demand	William Davis	CDM	2009	ppt (pdf)	NA															S		S										S					

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115	Qualitative Assessment of Municipal Water Resource Management Strategies Under Climate Impacts: The Case of the Northern Cape, South Africa	Pierre Mukheibir	Water SA (University of Cape Town)	2007	text (pdf)	NA								G																					S			
116	Water Supply Risk on the Colorado River: Can Management Mitigate?	Rajagopalan et al	Water Resources Research (University of Colorado at Boulder, NOAA, BOR, AMEC, Inc)	2009	text (pdf)	US				Y	Y	Y							S												S				S	S		
117	National Security and the Threat of Climate Change	-	CNA Corporation	2007	text (pdf)	NA		Y					G		G		G		G																			
118	Risk-Based Climate-Change Impact Assessment for the Water Industry	O. M. Thorne R. A. Fenner	Water Science and Technology (Cambridge University)	2009	text (pdf)	NA					Y	Y							S	S																		
119	Identification of Major Sources of Uncertainty in Current IWRM Practice. Illustrated for the Rhine Basin	van der Keur et al	Water Resources Management (Geological Survey of Denmark and Greenland, University of Osnabrück, Wageningen University, Rijkswaterstaat Centre for Water Management)	2008	text (pdf)	NA																													S	S	S	
120	Multi-Objective Water System Operations Optimization to Address Supply Uncertainty	Bill Fernandez Kirk Westphal Alek Cannan	AWRA Specialty Conference on Adaptive Management (CDM)	2009	text (pdf)	CA						Y							S																S			
121	City of San Diego Water Department Update of Long-term Water Demand Forecast	-	CDM	2008	text (pdf)	CA					Y										S		S										S		S			
122	Assessing Climate Change Impacts on Water Supply Planning	Enrique Lopez Calva Gordon McCurry Tim Cox	CDM	2009	ppt (pdf)	US		Y	Y	Y	Y										S												S	G	S			
123	Integrated Resources Planning: A Path to Sustainability	Dan Rodrigo	CDM	2008	ppt (pdf)	NA									G			G	G	G	G		G		G	G			G	G	G	G			S	S		
124	Irvine Ranch Water District Water Supply Reliability Study	-	CDM	2008	text (pdf)	CA								S					S		S												S		S			
125	New York City Department of Environmental Protection Greenhouse Gas Management Feasibility Study	-	CDM	2007	text (pdf)	US																															Y	
126	Climate Change Impacts on Recharge in a Semi-Arid Irrigated Watershed	Gordon N. McCurry Kenneth M. Strzepek	CDM	2008	text (pdf)	US						Y		G					S			S																
127	Climate Change and the Water/Wastewater Industry: Challenges and Opportunities	Alexandra Doody Lynne Moss Gordon McCurry	CDM	2008	text (pdf)	US																															Y	
128	The Role of Low-Impact Redevelopment/Development in Integrated Watershed Management Planning: Turning Theory Into Practice	Mark Maimone	CDM, PWID	2007	ppt (pdf)	US																									S		S					
129	Green Infrastructure in CSO Long Term Control Planning	Marty Umberg Samantha Doering	MSD Greater Cincinnati CDM	2008	ppt (pdf)	US																									S		S					
130	Water Supply Reliability Planning in the Face of Uncertainty: A Case Study of the Irvine Ranch Water District	Dan Rodrigo	CDM	2008	ppt (pdf)	CA								S					S		S														S			
131	The City of West Palm Beach Wetlands-Based Water Reclamation and Water Supply Augmentation Program	Lee Wiseman, Larry Schwartz	CDM	2008	ppt (pdf)	US								S											S				S							S		
132	Cosumnes, American, Bear & Yuba River Integrated Water Management Plan	-	Cosumnes, American, Bear & Yuba River Watersheds Group (Ecosystem Sciences Foundation)	Dec-06	text (pdf)	CA						Y			G				S																S		G	

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133	The Future of Sustainability	W. M. Adams	International Union for the Conservation of Nature (IUCN)	Jan-06	text (pdf)	NA																																	
134	Adapting to Climate Change in Australia: An Australian Government Position Paper	-	Commonwealth of Australia Department of Climate Change	2010	text (pdf)	NA																																	
135	Integrated Regional Water Management Plan for the Upper Santa Margarita Watershed Planning Region	-	Rancho California Water District Riverside County (CDM)	2007	text (pdf)	CA																													S			Y	
136	Solano Agencies Integrated Regional Water Management Plan and Strategic Plan	-	Solano County Water Agency Solano Agencies	2005	text (pdf)	CA																													S				
137	Climate Change Risks to Australia's Coast	-	Commonwealth of Australia Department of Climate Change	Nov-09	text (pdf)	NA						Y			S		S																	S	S	S			
138	Climate Change in Australia: Regional Impacts and Adaptation - Managing the Risk for Australia	-	Australian Prima Minister's Science, Engineering and Innovation Council	2007	text (pdf)	NA																			G						G								
139	Climate Change Science Compendium		United Nations Environment Programme	Sep-09	text (pdf)	NA	Y	Y	Y						S		S																				G		
140	Confronting Climate Change: An Early Analysis of Water and Wastewater Adaptation Costs		CH2MHill; Association of Metropolitan Water Agencies	October-09	text (pdf)	US	Y			Y	Y	Y	S				S	S	S					S				S	S	S	S					G	G		
141	Climate Change Indicators in the United States		US EPA	April-10	text (pdf)	US	Y	Y	Y	Y						G																							
142	Advancing the Science of Climate Change		National Research Council of the National Academies	May-10	text (pdf)	US	Y	Y	Y	Y	Y		S	G	S		S	G	S	G	G	G	G					G									G		
143	Adapting to the Impacts of Climate Change		National Research Council of the National Academies	May-10	text (pdf)	US	Y	Y		Y	Y	Y			S		S					G	S	S	G	S	G	S	S	S	S	S	S	S	S	S	S	S	
144	Climate Adaptation Priorities for the Western States: Scoping Report		Western Governer's Association	June-10	text (pdf)	US	Y		Y																														
145	Water, Climate Change, and Forests - Watershed stewardship for a changing climate		US Forest Service	June-10	text (pdf)	US	Y	Y		Y	Y	Y	G	G	S	G		G	S	G			S	S	S	S			G	G	S	S				G	S		
146	Evaluating Sustainability of Projected Water Demands in 2050 under Climate Change Scenarios		Tetra Tech/NRDC	July-10	text (pdf)	US	Y	Y		Y	Y	Y	G	G		S		G	S	G	G	G																	
147	The State Water Project Delivery Reliability Report 2009		CA Department of Water Resources	August-10	text (pdf)	CA	Y					Y	G			G	S	G	S																		G		
148	Rising to the Urgent Challenge: Strategic Plan for Responding to Accelerating Climate Change		US Fish and Wildlife Service	September-10	text (pdf)	NA		Y	Y						G				G							G											G	Y	
149	Myths of California Water - Implications and Reality	Hanak, Lund, Dinar, Howitt, Mount, Moyle, Thompson		Winter 2010	text (pdf)	CA	Y					Y							S																		G		
150	Sierra Climate Change Toolkit - 3rd Edition		Sierra Nevada Alliance	XX 2010	text (pdf)	CA	Y	Y	Y	Y		Y											S	S		S	G				S						S	Y	
151	Framework for Cooperative Conservation and Climate Adaptation for the Southern Sierra Nevada and Tehachapi Mountains		Southern Sierra Partnership	October-10	text (pdf)	CA				Y	Y				S				S				S			S											G		
152	Preparing for the Effects of Climate Change - A Strategy for California		Pacific Council on International Policy'	November-10	text (pdf)	CA	Y								G		S		S				S	G	S	G		S		S	S		G	S			S		
153	Climate Action Team Report to Governor Schwarzenegger and the California Legislature		Cal EPA and the Climate Action Team	December-10	text (pdf)	CA																															G	Y	
154	Climate Change Characterization and Analysis in California Water Resources Planning Studies	Abdul Kahn and Andrew Schwarz	California Department of Water Resources	December-10	text (pdf)	CA					S	S	G				G	G	G																G	G			
155	The State of Marine and Coastal Adaptation in North America: A Synthesis of Emerging Ideas		EcoAdapt	January-11	text (pdf)	NA	Y	Y		Y					S		S	S	S	S			S	S	G	S		S	G	S	S	S				G	S	Y	

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156	Managing Water in the West - Literature Synthesis on Climate Change Implications for Water and Environmental Resources (Second Edition)	Mark Spears, Levi Brekke, Alan Harrison, and Joe Lyons	BOR	January-11	text (pdf)	US	Y			Y	Y	Y	G		G	G	G		G		G																	
157	West-Wide Climate Risk Assessments: Bias-Corrected and Spatially Downscaled Surface Water Projections		BOR	March-11	text (pdf)	US	Y			Y	Y	Y																							G	G		
158	Ready...Or Not? An Assessment of California Agriculture's Readiness for Climate Change		California Climate and Agricultural Network	March-11	text (pdf)	CA				Y									G				G								G		G				Y	
159	Climate Change Vulnerability Assessments: Four Case Studies of Water Utility Practices		US EPA	March-11	text (pdf)	CA	Y			Y	Y	Y	S			S	S	S	S	S	S			G				G			G				G	S	G	
160	SECURE Water Act Section 9503(c) - Reclamation Climate Change and Water 2011		US Bureau of Reclamation	April-11	text (pdf)	NA	Y			Y	Y	Y	S	S	S	S		S	S	S	S	S														G		
161	Drops of Energy: Conserving Urban Water in California to Reduce Greenhouse Gas Emissions		UC Berkeley School of Law's Center for Law, Energy & the Environment (CLEE); UCLA School of Law's Environmental Law Center & Emmett Center on Climate Change and the Environment; Bank of America	May-11	text (pdf)	CA	Y			Y						G			G				S								S			S			Y	
162	Extreme Weather and Climate Change - Understanding the Link, Managing the Risk		Pew Center on Global Climate Change	June-11	text (pdf)	NA	Y	Y																												G	G	
163	The Economic Costs of Sea-Level Rise to California Beach Communities		California Dept of Boating and Waterways	September-11	text (pdf)	CA	Y	Y	Y	Y	Y		S			S								S			S									G		
164	Water, Energy and Climate Change - A contribution from the business community		World Business Council for Sustainable Development	no date	text (pdf)	NA	Y												G				S							S					G		Y	
165	Adapting Urban Water Systems to Climate Change		ICLEI	xx 2011	text (pdf)	NA	Y			Y			G	G		G	S	S	G									S		S		S	S	G	G	S	Y	
166	America's Climate Choices		National Research Council of the National Academies	XX 2011	text (pdf)	US		Y	Y																													
167	Informing an Effective Response to Climate Change		National Research Council of the National Academies	XX 2011	text (pdf)	US		Y			Y																								S	S	S	Y

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